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09/693,134	10/20/2000	Kia Silverbrook	ART82US	7841
24011 . 75	590 06/03/2004		EXAMINER	
SILVERBROOK RESEARCH PTY LTD 393 DARLING STREET			HENN, TIMOTHY J	
	2041		ART UNIT	PAPER NUMBER
AUSTRALIA			2612	8
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No. Applicant(s)						
	09/693,134	SILVERBROOK ET	SILVERBROOK ET AL.				
Office Action Summary	Examiner	Art Unit					
	Timothy J Henn	2612					
The MAILING DATE of this communication ap Period for Reply	pears on the cover shee	t with the correspondence add	iress				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep. If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, ma oly within the statutory minimum of will apply and will expire SIX (6) I de, cause the application to becom	y a reply be timely filed thirty (30) days will be considered timely. MONTHS from the mailing date of this cone a ABANDONED (35 U.S.C. § 133).	nmunication.				
Status							
1) Responsive to communication(s) filed on 20 A	April 2004.						
2a)⊠ This action is FINAL . 2b)□ Thi	This action is FINAL. 2b) This action is non-final.						
·	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) 1-3,6 and 7 is/are pending in the appear 4a) Of the above claim(s) is/are withdra 5)□ Claim(s) is/are allowed. 6)⊠ Claim(s) 1-3,6 and 7 is/are rejected. 7)□ Claim(s) is/are objected to. 8)□ Claim(s) are subject to restriction and/	awn from consideration.						
Application Papers							
 9) The specification is objected to by the Examination 10) The drawing(s) filed on 20 October 2000 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examination 	e: a)⊠ accepted or b)□ e drawing(s) be held in abe ction is required if the draw	eyance. See 37 CFR 1.85(a). ving(s) is objected to. See 37 CFI	R 1.121(d).				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	Paper	ew Summary (PTO-413) No(s)/Mail Date of Informal Patent Application (PTO	-152)				

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DETAILED ACTION

Information Disclosure Statement

1. The office notes that references which are not copending patent application are referred to on page 12, lines 25-29 of the specification. These references are what the examiner was originally referring to in regard to paragraph 1 of the previous office action in paper number 5.

Specification

- 2. The amendment to the specification filed on April 20, 2004 in paper number 6 overcomes the previous objection to the specification in regards to missing reference numbers and the use of attorney docket numbers instead of US application serial numbers. This objection is therefore withdrawn.
- 3. The amendment to the specification filed on April 20, 2004 in paper number 6 cancels claims 4 and 5. This overcomes the previous objections of the specification lacking proper antecedent basis for the claimed subject matter, this objection is therefore withdrawn.

Claim Objections

4. The amendment to the specification filed on April 20, 2004 in paper number 6 amends claim 1 to read "data" instead of "date". This overcomes the previous objection which is therefore withdrawn.

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5. The amendment to the specification filed on April 20, 2004 in paper number 6 cancels claim 8 and 9. This overcomes the previous objections which are therefore withdrawn.

Claim Rejections - 35 USC § 112

6. The amendment to the specification filed on April 20, 2004 in paper number 6 cancels claims 4 and 5. This overcomes the previous 112 first paragraph rejections of claims 4 and 5, these rejections are therefore withdrawn.

Double Patenting

- 7. The terminal disclaimer filed on April 20, 2004 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of US 6.496.654 has been reviewed and is accepted. The terminal disclaimer has been recorded.
- 8. The terminal disclaimer filed on April 20, 2004 in paper number 7 overcomes the obvious-type double patenting rejection over US 6,496,654. This rejection is therefore withdrawn.
- 9. The office notes that the provisional obvious-type double patenting rejection over copending Application No. 09/693,134 in view of Kuchta et al. (US 5,164,831) has not yet been addressed. Therefore, it will be repeated herein.

Response to Arguments

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10. Applicant's arguments filed on April 20, 2004 in paper number 6 have been fully considered but they are not persuasive.

- 11. In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971).
- 12. In the amendment filed on April 20, 2004 the applicant argues that "Soscia only discloses printing audio data over the top of a photographic image" and further argues that "Whilst it may be intuitive to attempt to convey further information (e.g. audio data) in an invisible encoded form over a photograph, it is, in the Applicant's submission, entirely counterintuitive to print an invisible code over a printing image where the invisible code corresponds to the printed image". The office notes that Soscia was used for the notion of recording digital data in invisible ink over a printed image to allow a photograph to carry digital data files without visibly interfering with the quality of the printed image and not for the specific data which is being printed. It is also noted that while Soscia describes a preferred embodiment as storing audio information using an invisible ink over the top of a photograph, the invention of Soscia is not limited to this. In fact Soscia provides motivation for storing information other than audio information on

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a photograph in column 7, lines 26-30. It is therefore respectfully submitted that it would have been obvious to one skilled in the art the time when the invention was made to store other data which is common in digital camera systems, such as image data and image processing programs, on a photograph using the teachings of Soscia.

- 13. It is further submitted that it also would have been obvious to one skilled in the art to store the digital image data and transformed image data together under the teachings of Kuchta et al. and to continue to store them together when printed onto a photograph in invisible ink using the method of Soscia to retain the benefits of storing an original image and a transformed image together as taught by Kuchta et al.
- 14. In response to applicant's argument that the examiner has combined an excessive number of references, reliance on a large number of references in a rejection does not, without more, weigh against the obviousness of the claimed invention. See *In re Gorman*, 933 F.2d 982, 18 USPQ2d 1885 (Fed. Cir. 1991).
- 15. Therefore, in regard to the applicants arguments Claims 1-3, 6 and 7 remain rejected under 35 U.S.C 103(a) over Kuchta et al. (US 5,164,831) in view of Soscia (US 5,996,893) in further view of Nelson et al. (US 6,191,406).

Claim Rejections - 35 USC § 103

16. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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17. Claims 1-3, 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kuchta et al. (US 5,164,831) in view of Soscia (US 5,996,893) in further view of Nelson et al. (US 6,191,406).

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[claim 7]

- 18. In regard to claim 7, note that Kuchta et al. discloses a camera system for imaging and image including means for outputting the image in a digital form (Column 2, Lines 33-48); the camera including means for inputting an image processing program (Figure 1, Items 20, 22); means for processing the digital format of the image into a transformed image according to the steps of the image processing program (Column 2, Lines 41-44) and storing the transformed image and the original image in a single file (Column 2, Lines 44-48). It can be seen that Soscia lacks means for converting the digital format of the image and the transformed image into a fault tolerant encoded digital form and means for printing the fault tolerant encoded digital form and the image using an ink jet printing process and the fault tolerant digital form being printed using an infra-red ink.
- 19. Soscia discloses a printing device which prints a human viewable image with digital data printed over the top in an invisible ink (Figure 3; Column 6, Line 59 Column 7, Line 14) in order to provide a way to store data associated with a photograph directly on the photograph (Column 1, Lines 30-34). It is noted that although Soscia describes a preferred embodiment which stores audio data on a photograph, he also discloses that other types of information can be stored on the photograph (Column 7,

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Lines 26-30). Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the method of Soscia to print images taken by the camera of Kuchta et al., and to store a digital version of the image and transformed image of Kuchta et al. on the printed photograph, using the system of Soscia.

20. It can further be seen that Kuchta et al. in view of Soscia lacks means for converting the digital format of the transformed image and the original image into a fault tolerant encoded digital form. However, Nelson et al. discloses a photograph with digital data printed over it in invisible ink in which the digital data is encoded in PDF 417, a well known fault tolerant form. It would have been obvious to one of ordinary skill in the art at the time the invention was made to encode the original and transformed image data of Kuchta et al. in PDF417 format as taught by Nelson et al. prior to printing of the photograph to create a printed version of the digital data which is more resilient to physical damage without losing the ability to be read (Official Notice). It is also noted that Nelson et al. discloses the use of infra-red ink for the printing of the secondary invisible image as a currently preferred embodiment of the ink to be used for printing of the digital data on the photographs (Column 4, Lines 35-44). Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to use infra-red ink in the printing system of Soscia.

[claim 1]

21. Claim 1 is a method claims corresponding to apparatus claims 7. Therefore, claim 1 is analyzed and rejected as previously discussed with respect to apparatus

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claim 7.

[claim 2]

22. In regard to claim 2, note that Nelson et al. discloses the use of invisible infra-red ink (Column 4, Lines 35-44) which inherently has absorption in the infra-red spectrum and negligible absorption in the visible spectrum.

[claim 3]

23. In regard to claim 3, note that Nelson et al. discloses the use of PDF417 encoding for the fault tolerant digital data, which, as is well known in the art, uses Reed-Solomon encoding (Official Notice).

[claim 6]

24. In regard to claim 6, note that Kuchta et al. in view of Soscia in further view of Nelson et al. discloses a print means that is detachable from the camera (See Soscia, Figure 1). Therefore, it can be seen that Kuchta et al. in view of Soscia in further view of Nelson et al. lacks a print roll means for storing the print media and an ink supply for the printer. The office notes that Soscia discloses that "any one of a plurality of known digital printers capable of printing on a substrate" (Column 3, Lines 19-21) may be used. It is well known in the art to include ink supply reservoirs in printing devices to store a large amount of ink to be able to print multiple sheets without refilling the printer. It is also well known in the art to store print media in rolls to be able to place a large amount of print media in a small location. Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to use both an ink supply and a print media roll in the printer of Kuchta et al. in view of Soscia in further view of Nelson

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et al. to be able to print a large number of pictures without the need to constantly restock the printer (Official Notice).

Double Patenting

25. Claims 1-3, 6 and 7 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-9 of copending Application No. 09/693,083 in view of Kuchta et al. (US 5,164,831).

[claim 1]

09/693,083 claims a method for printing digital data on a photograph comprising the steps of receiving image data corresponding to an image (claim 1, step a), loading an image processing program (claim 1, step b), transforming the image data using the image processing program(claim 1, step c), converting image and image related data into a fault tolerant digital form (claim 1, step e) and printing out the fault tolerant digital data using an ink jet printing process with an invisible ink on a surface of a print media while simultaneously printing out image data as a photographic image in a visual, human readable form on the same surface of the print media (claim 1, step f).

Therefore, it can be seen that 09/693,083 lacks a method which encodes a fault tolerant copy of the original image data and the transformed image data, and prints this fault tolerant encoded data on a photographic printed version of the original image data.

Kuchta et al. teaches the storing of a transformed image, which is created using an image processing program loaded onto a camera, and an original image together to allow quick reading of the transformed image data for review while still maintaining the

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original high resolution image data (Column 2, Lines 21-32). Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to transform the original image using an image processing program and to store the original and transformed image data together on the photograph to allow for fast access and display of the transformed image data, without losing the advantages of keeping original high resolution image data. The office also notes that it is well known in the art when printing image data to use the highest resolution available to obtain a better photographic print (Official Notice). Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to print the original image data as the photographic printed version to obtain a better quality picture.

[claims 2, 3 and 6]

The office notes that claims 2-6 of 09/693,083 are verbatim copies of claims 2-6 of the present application.

[claim 7]

In regard to claim 7, note that 09/693,083 claims an apparatus for printing in invisible ink encoded fault tolerant digital data on a photograph, the apparatus including a camera system for imaging an image including means for outputting the image in a digital format, the camera including means for inputting an image processing program (claim 7, item a), means for processing the digital format of the image into a transformed version of the image in accordance with the steps of the image processing program (claim 7, item b), means for converting the digital format of the image and other image related data into a fault tolerant form (claim 7, item c) and means for printing on a

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surface the transformed version of the image and the fault tolerant encoded digital form using an ink jet printing process, the fault tolerant encoded digital form being printed using an infra-red ink (claim 7, item d). Therefore, it can be seen that 09/693,083 lacks an apparatus which encodes a fault tolerant copy of the original image data and the transformed image data, and prints this fault tolerant encoded data on a photographic printed version of the original image data.

Auchta et al. teaches the storing of a transformed image, which is created using an image processing program loaded onto a camera, and an original image together to allow quick reading of the transformed image data for review while still maintaining the original high resolution image data (Column 2, Lines 21-32). Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to transform the original image using an image processing program and to store the original and transformed image data together on the photograph to allow for fast access and display of the transformed image data, without losing the advantages of keeping original high resolution image data. The office also notes that it is well known in the art when printing image data to use the highest resolution available to obtain a better photographic print (Official Notice). Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to print the original image data as the photographic printed version to obtain a better quality picture.

This is a <u>provisional</u> obviousness-type double patenting rejection.

Conclusion

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26. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

27. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy J Henn whose telephone number is (703) 305-8327. The examiner can normally be reached on M-F 7:30 AM - 5:00 PM, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wendy R Garber can be reached on (703) 305-4929. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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TJH 5/19/2004

WENDY R. GARBER
WENDY R. GARBER
UPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600